



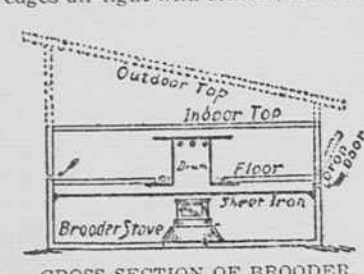
POULTRY & BEES

HOMEMADE BROODER.

Constructed on Simple and the Same Time Correct Principles.

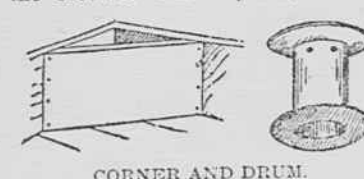
The incubator has come to stay in the poultry world, and many farmers are also availing themselves of its advantages. Where incubators are used, one must have brooders, and unless these can be made at home, the expense of a hatching "plant" is very materially increased. Fortunately, brooders can be constructed that will do very good work, though of course they must be watched a little more closely than would be necessary with the self-regulating brooders that one can buy.

A plan is shown herewith that gives a brooder constructed on simple and at the same time correct principles. The diagram, Fig. 1, is very nearly self-explanatory. A box three feet square, or thereabouts, has in the bottom a brooder lamp or stove. Above this is a sheet of iron as large as the inside of the box, and supported at the four sides, and by an iron prop near the lamp, if it is inclined to sag. Make the edges air-tight with cement, so that no



CROSS SECTION OF BROODER.

fumes from the lamp can get up above the sheet iron. Have a sheet iron drum made as indicated in Fig. 3 and set this into the brooder floor, filling in the rest of the floor about the drum with cement, that there may be no danger from fire. The drum need not be over six inches in height. It has a half dozen openings under the top, as shown in the sketch. When the lamp is lighted, air enters at one side above the sheet iron, is heated and rises in the drum, passes out through the openings into the chick chamber, and is diffused about it. Three or four ventilating holes are in the wall near the floor for the exit of cold air. This gives a constant movement of warm air into the brooder. These openings can be



CORNER AND DRUM.

partly closed when desired. An opening in the side near the bottom of the lamp chamber, and one near the top on the opposite side, give fresh air to the lamp and an exit for its fumes. The lamp is inserted through a small door in the side of the box. One whole side of the brooder chamber is a drop door, for the easy sweeping out of the floor. The top (in door) can have a pane of glass in it, so one may see the chicks, and the thermometer hanging against one side. Glass on two sides gives light. The top must fit very tight.

Read the article headed "The Three Great Bills" in this issue.

If this brooder is to be used out of doors, a roof must be added, as indicated by dotted lines. The corners of the brooders are cut off, as seen in Fig. 2, so that the chicks may not crowd into them and the weak be trampled upon and smothered by the stronger. Should the chamber ever become cold, this is an important matter and should not be overlooked.—Orange Judd Farmer.

BEES BY EXPRESS.

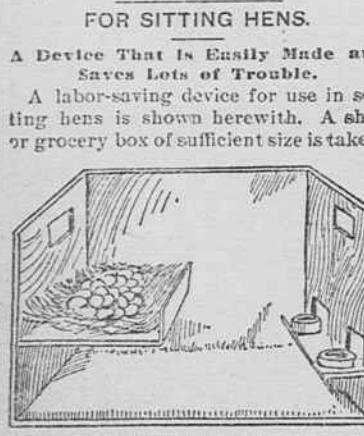
Some Valuable Hints Regarding Packing and Shipping.

An exchange gives the following directions for packing and shipping bees. The manner of packing depends somewhat upon the kind of hive, and to some extent on the season of the year. They can be shipped any time of the year when bees are dying. If the weather is comparatively cool, as in the spring and fall, they do not need so much ventilation as through the warm months. There is little danger, however, of giving too much ventilation at any time. Just how the ventilation can best be given depends upon the hive, but with almost any hive you can have the entire top covered with wire cloth, and that makes the colony safe against smothering. If the weather is hot the bees need a supply of water on their journey, which may be given by means of a sponge or a roll of rags saturated with water and placed on the top of the frames. If the hive contains loose hanging frames, these must in some way be made fast. This may be done by driving nails through the ends of the top bars down into the ends of the hive, but the nails should not be driven in their entire depth, leaving their ends projecting so they can be drawn with a claw hammer. When placed on the cars, let the frames run parallel with the track; on a wagon they should run crosswise.

FOR SITTING HENS.

A Device That Is Easily Made and Saves Lots of Trouble.

A labor-saving device for use in setting hens is shown herewith. A shoe or grocery box of sufficient size is taken,



LABOR SAVING DEVICE.

and a nest is made in one end, as shown in the engraving, the top and front having been removed to show the interior. The bottom of the box is covered with road dust, or coal ashes and a shaft for setting in water reached, connecting the best feed for sitting hens. Openings for air are made in each end. A hen can be placed on the nest, the cover of the box put on, and biddy left to her own devices until she brings off her brood. This plan takes away much of

the cure usually experienced in setting hens in spring.—Orange Judd Farmer.

EGGS OF COMMERCE.

Big Business Done in the International Trading in Them.

There is a standard joke in the variety theaters, so often told that it has come to have a familiar sound to the ears of patrons, concerning a remark made by a city man who heard that eggs had gone down to a cent apiece: "I don't see how the hens can do it for the price." Notwithstanding the reduction in the price of eggs, and the almost unlimited supply of them in almost all countries that have developed their agricultural resources, it is a fact that the trade in eggs, their exportation from one country to another, has become a large item of international commerce, as some recent figures show. The case of Denmark is in point. Denmark's trade in eggs with foreign countries, chiefly with England and Scotland, has grown enormously. Twenty years ago the annual Danish export of eggs was 600,000; now it is reckoned at 110,000,000. In the same period the importation of eggs into England has increased tenfold, but only a part of the whole number came from Denmark, the two other egg exporting countries from which England draws its supplies being Holland and France. France exports to other countries 600,000,000 eggs a year, and Italy exports 500,000,000 eggs a year, chiefly to Austria and Germany.

The dairymen of the United States depend chiefly on the enormous home market, and they have rivals in the export of American eggs in the Canadians, Canada ranking next to France and Italy and ahead of Denmark and Holland as an egg-exporting country. Canada exports to other countries 300,000,000 eggs a year. For the fiscal year of 1905 the treasury figures give the total exports of American eggs to foreign countries 151,000 dozen, which is equivalent to 1,812,000 eggs. In the fiscal year 1906, however, the total export of American eggs increased to 235,000 dozen, or 2,820,000 eggs, a little more than twice as much. The export figures for this year indicate a still further increase, and a market for American eggs is likely, therefore, to be secured in what the political campaign orators are accustomed to call, somewhat vaguely, the near future.

It is a somewhat curious fact that the weight of eggs is materially larger in the north than in the southern climates. Canadian eggs, for instance, are heavier than those shipped from the United States, and eggs in the northern states of this country are heavier than those from the south.—N. Y. Sun.

AMONG THE POULTRY.

Save All the Feathers.

Wheat is one of the best egg producing foods.

Sunflower seed promote laying and good health.

Keep the tail and wing feathers separate from the others.

Chaff is a good material for the nests of the early sitting hens.

The secret of raising goslings is to keep them dry and warm.

Young fowls need bone meal to supply strength and to the growing frame.

It will require an average of one pound of grain per week for ten weeks to feed a chick.

If chicks are allowed a free run on light warm days it will add considerably to their vigor.

The use of cross-bred cocks often prevents uniformity in the color and characteristics of the chicks.

New blood in poultry is the basis of beauty, vigor, and prolificness. Introduce it at least every two years.

If the large white breed of ducks are kept the feathers will be nearly as valuable as those from the geese.

Winter layers depend upon early pullets. Early pullets depend upon early setters and early setters upon winter layers.

Keep the yard and poultry-house floors sprinkled with air-slaked lime and there will be fewer cases of roup.—St. Louis Republic.

Feeding the Laying Hens.

It is a mistake to keep the laying hens with those which do not produce eggs, for the reason that the layers require more food than the others, and do not receive it. Usually when hens do not receive it, they are too fat, and should be fed on foods containing but little grain, and also fed sparingly; consequently, when all the hens are together, the non-producing hens may become fatter while the layers do not receive enough. It does not pay to feed hens that do not give a return for the food consumed.—Farm and Fireside.

Treatment of Broody Hens.

When it is desired to break up a persistent sitter it is often a hard matter to succeed, but if the hen is given a new location she often concludes not to sit at all. Then she becomes broody she should be removed after dark to some place away from the layers. If this location is very near like the old one it is possible the hen will become contented and proceed to sit. At first she may be given two or three wooden eggs, and if she shows an inclination to sit after a day or two she may have the eggs for incubation. Glass or porcelain eggs are cold, and the hen is likely to refuse to sit, rather than be an incubator to her.—Dakota Field and Farm.

MISCELLANEOUS ITEMS.

—Glass bricks with a hollow center are found quite desirable in Germany for the construction of conservatories.

—It is said that baked bananas will unfailingly build up and strengthen thin and weak bodies and enrich the blood. They should be baked about 20 minutes.

—Shipbuilders assert that an iron ship has a carrying capacity of 110 tons for every 100 tons carried by a wooden vessel of the same dimensions, while the weight of the iron ship is 27 per cent less.

—Up to the age of 20 a youth needs nine hours' sleep, and after that age a person needs eight. Neglect of sleep causes exhaustion and irritability and retards intellectual and physical growth.

—In Santa Rosa, Cal., there is a Baptist church built entirely of the wood of a single redwood tree. Even the roof was made of the same tree, and there were 60,000 shingles left. The church seats 200 people.

—Vegetables in the mountains of Sweden, Norway and Lapland suffer greatly from the Norway rats. Farming in those districts would be very unprofitable were it not for the white foxes, which prey largely upon the rats.

—In Sacramento is a schoolboy who with ease commits to memory long and difficult lessons, sometimes learning passages of history fully 500 words in length. But the next day he loses all recollection of the previous day's acquisitions.

—A church in Cleveland needing a minister agreed to listen to a young man from a visiting clergyman. The chairman of the trustees fell asleep during its delivery, and subsequently ob-

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worth much more. Tablets same price, good goods. We have the best 5c and 10c Toilet Soap in the State. We have other better, and some not so good, for less money. Soda Fountain is open, try a

Peach Pulp or Claret Ice.

Look for Soda Water notices soon, and remember that Prescriptions are our specialty.

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Successor to A. F. HARGRAVE.

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Old Time Kentucky Rye.....	80	3.20
White Mills Old Bourbon.....	75	2.70
Old Virginia Glades Pure Rye.....	75	2.50
Honeymoon Pure Kentucky Rye.....	60	2.20
Imperial Cabinet.....	50	2.00
Commercial Rye.....	1.50	2.70
White Rye (4 years old).....	2.70	

IMPORTED AND DOMESTIC BRANDIES	Per Bot.	Per Gallon.
Slivovitz.....	\$1.50	\$5.00
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Peach (Virginia-made).....	75	2.70
California Peach.....	1.00	3.50
Blackberry Brandy.....	50	1.50 to 2.25
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Ginger Brandy.....	50	1.50 to 2.00

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Policies written by them insure protection, indemnity and security to their holders. Losses paid in Southwest Virginia over \$35,000,000, every dollar of which was paid without law-suit or controversy. oct1

PUBLIC SALE VALUABLE REAL PROPERTY AT POCAHONTAS, VA.

By virtue of a deed of trust executed by W. A. Whitley and Cosby Whitley, his wife, to J. Taylor Elyson and Geo. W. St. Clair, trustees of Old Dominion Building and Loan Association, on the 17th day of September, 1895, of record in the clerk's office of the County Court of Tazewell County, in deed book 38, pages 174-5; default having been made by said W. A. Whitley to comply with the terms of contract with said association and terms of deed of trust, by direction of board of directors to us, we will sell on Saturday, APRIL 24, 1897,

at front door of court house of said county, at 1 o'clock p. m., all that certain house and lot situate in the town of Pocahontas, Tazewell County, Virginia, being the northeast corner of a portion of lot No. 1, East St. Clair Street, fronting 25 feet on Church Street and bounded on south by said street, and fronting on Center Street 50 feet, and bounded on west by said street, and on north by property of Tompkins, and on east by property of B. Prince.

Terms: Cash sufficient to pay expenses of executing trust, and amount due from said Whitley to said association, (at this date being \$1,410.50), balance on a credit of 6, 12 and 18 months.

Geo. W. St. Clair, J. Taylor Elyson, Trustees.

Sale of above mentioned property continued until 22d May, 1897, and to be sold on the premises at Pocahontas, Va.

Geo. W. St. Clair, J. Taylor Elyson.

4-22-97

DISOLUTION.—Notice is hereby given that the partnership heretofore existing between W. J. Higginbotham and T. A. Gillespie in the milling business carried on at Cedar Bluff, Tazewell County, Va., is this day dissolved by mutual consent. T. A. Gillespie retiring and will be succeeded by J. H. Kirby an experienced and practical miller. The style of the firm will hereafter be known as that of Higginbotham & Kirby who respectfully solicit the patronage of the public. All accounts due the old firm will be collected by W. J. Higginbotham. Very Truly HIGGINBOTHAM & GILLESPIE.

We, the undersigned, successors to the firm of Higginbotham & Gillespie in the milling business at Cedar Bluff, in Tazewell County, Va., having first class facilities for manufacturing the best quality of Roller Flour of all grades, Corn Meal, Chop and mill feed, respectfully solicit the patronage of the public, believing that we can give as good satisfaction and do as good work as any mill in the State as to quality and quantity. Give us a call. Very Respectfully W. J. HIGGINBOTHAM, J. H. KIRBY.

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Respectfully,

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Yours for business,

JOS. MULKY & SON, Cedar Bluff, Va.

(dec-17)

Notice!

I have for sale three Poland-China boar pigs; farrowed Oct. 29, '96. These pigs are thoroughbred, and pedigree furnished with each sale. Write for prices.

A. J. MAY, JR., Tazewell, Va.

DR. M. B. CROCKETT, Physician and Surgeon

Has located at Liberty Hill (Knob), Va. at which place he can be found at all times except when absent on professional duties.

Notice!

NOTICE.

To All Whom It May Concern:

All persons are hereby notified and warned not to trespass upon nor cut nor cause to be cut or removed, nor dispose of any timber or mineral, from within the survey or boundary line of a certain tract of land, containing one hundred and fifty thousand (150,000) acres, lying principally in the county of McDowell, state of West Virginia and portions thereof in Tazewell and Buchanan counties, Virginia, and Wyoming county, West Virginia, and known as Robert Polard and Putnam's, in right of Jonathan Smith's, Esq., Tazewell county Virginia; thence north 20 degrees, west 530 poles to "three red oaks," crossing Laurel creek at 230 poles, the Tazewell